



A D 1872, 5th FEBRUARY. N^o 361.

S P E C I F I C A T I O N

OF

JAMES GLENCAIRN CUNNINGHAM
AND
JOSEPH CORBIN.

EXTRACT FOR PREPARING BATHS.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY:

PUBLISHED AT THE GREAT SEAL PATENT OFFICE,

25, SOUTHAMPTON BUILDINGS, HOLBORN.

Price 6d.

1872.



A.D. 1872, 5th FEBRUARY. N^o 361.

Extract for Preparing Baths.

LETTERS PATENT to James Glencairn Cunningham, of Ramsgate, in the County of Kent, Chemist, and Joseph Corbin, of the same Place, Manager of the Granville Hotel, for the Invention of “**AN IMPROVED AGENT TO BE USED IN THE PREPARATION OR PRODUCTION OF BATHS.**”

Sealed the 2nd August 1872, and dated the 5th February 1872.

PROVISIONAL SPECIFICATION left by the said James Glencairn Cunningham and Joseph Corbin at the Office of the Commissioners of Patents, with their Petition, on the 5th February 1872.

We, JAMES GLENCAIRN CUNNINGHAM, of Ramsgate, in the County
5 of Kent, Chemist, and JOSEPH CORBIN, of the same Place, Manager of the Granville Hotel, do hereby declare the nature of the said Invention for “**AN IMPROVED AGENT TO BE USED IN THE PREPARATION OR PRODUCTION OF BATHS,**” to be as follows :—

The object of this Invention is to prepare or produce a bath possessing
10 sanitary, hygienic, or curative properties. For this purpose we produce

Cunningham & Corbin's Improved Extract for Preparing Baths.

an agent which is to be dissolved in order to prepare or produce the required bath.

We take sea weed, sea wrack, or fuci, from which we prepare an extract. The mode we recommend is to prepare such extract in vacuo. We then iodize it by the use of iodide of potassium, or other suitable 5 alkaline, or other salt containing iodine. We next pass ozone through the iodized extract. This ozone frees the iodine from its combination with the alkali or base. The product is then ready for being dissolved when required for use in the preparation or production of a bath.

SPECIFICATION in pursuance of the conditions of the Letters Patent, 10
filed by the said James Glencairn Cunningham and Joseph Corbin
in the Great Seal Patent Office on the 5th August 1872.

TO ALL TO WHOM THESE PRESENTS SHALL COME, we, JAMES
GLENCAIRN CUNNINGHAM, of Ramsgate, in the County of Kent,
Chemist, and JOSEPH CORBIN, formerly of the same Place, Manager of 15
the Granville Hotel, and now of Hastings, in the County of Sussex,
send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her
Letters Patent, bearing date the Fifth day of February, in the year of
our Lord One thousand eight hundred and seventy-two, in the thirty- 20
fifth year of Her reign, did, for Herself, Her heirs and successors, give
and grant unto us, the said James Glencairn Cunningham and Joseph
Corbin, Her special licence that we, the said James Glencairn
Cunningham and Joseph Corbin, our executors, administrators, and
assigns, or such others as we, the said James Glencairn Cunningham 25
and Joseph Corbin, our executors, administrators, and assigns, should at
any time agree with, and no others, from time to time and at all times
thereafter during the term therein expressed, should and lawfully might
make, use, exercise, and vend, within the United Kingdom of Great
Britain and Ireland, the Channel Islands, and Isle of Man, an Inven- 30
tion for "**AN IMPROVED AGENT TO BE USED IN THE PREPARATION OR PRO-
DUCTION OF BATHS,**" upon the condition (amongst others) that we, the said
James Glencairn Cunningham and Joseph Corbin, our executors or
administrators, by an instrument in writing under our or their hands

Cunningham & Corbin's Improved Extract for Preparing Baths.

and seals, or under the hand and seal of one of us or them, should particularly describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months
5 next and immediately after the date of the said Letters Patent.

NOW KNOW YE, that we, the said James Glencairn Cunningham and Joseph Corbin, do hereby declare the nature of the said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement thereof,
10 that is to say:—

The object of this Invention is to prepare or produce a bath possessing sanitary, hygienic, or curative properties. For this purpose we produce an agent which is to be dissolved in order to prepare or produce the required bath.

15 We take sea weed, sea wrack, or fuci, from which we prepare an extract. (The mode which we recommend for preparing such extract is evaporation in vacuo.) We then iodize the product by means of iodide of potassium, or other suitable alkaline or other salt containing iodine. We next pass ozone through the iodized extract. This ozone frees the
20 iodine from its combination with the alkali or base. The product is then ready for being dissolved when required for use in the preparation or production of a bath.

We proceed particularly to describe in what manner the Invention may be conveniently carried into practical effect.

25 We take any convenient quantity of sea weed preferring for the purpose of our Invention the sea weed called fucus vesiculosus. We mince the sea weed, that is to say, we cut or reduce it into small pieces. We then crush it between serrated rollers caused to revolve by hand or other means. We then make a very strong decoction of the sea weed
30 in water, using about enough water to cover the sea weed. We then pour off what liquor we can and press the mass of material in a strong press, and evaporate the mucilaginous product in vacuo at a low heat until it becomes gelatinous or nearly so on cooling. To this extract we add iodine in the form of iodide of potassium or iodide of sodium, the
35 proportion being two ounces of iodine to one gallon of extract, (that is to say, whatever salt be used, a quantity containing 2 oz. of iodine must be employed to one gallon of extract. Lastly, we pass ozonized air or

Cunningham & Corbin's Improved Extract for Preparing Baths.

ozonized oxygen through the extract until as much iodide is set free as possible.

We evaporate in vacuo or at a low heat because if the heat were raised to too high a degree, as it might be by other modes of evaporating, the mucilaginous characteristic of the extract would be destroyed. 5

The apparatus which we recommend for subjecting the extract to the ozonizing process is represented in elevation in the accompanying Drawings. This apparatus has the advantage of preventing loss of gas.

In the Drawing A, A^x, is a vessel or receiver made of glass or porcelain, and of a somewhat cylindrical form. This vessel is made in 10 two parts, namely, A^x the body of the vessel and A its cover, which is tubulated or has tubular openings at 1, 2, 3, 4. The two parts A, A^x, are held together by copper bands L and bolts. The extract to be ozonized is placed in the receiver A, A^x, after removal of the cover A, which is afterwards replaced and secured to the body A^x by the aforesaid 15 bands and bolts. B is a spindle which passes through the vessel A, A^x, at the part 3, 4, and carries arms, vanes, beaters, or "devils" C, C, C, for agitating or beating the extract within the receiver A, A^x. D, D, are standards bolted to the floor and forming a framework for supporting the spindle B and the vessel A, A^x; the spindle B turns in bearings in 20 the top ends of the standards. E is a driving rigger or pulley on one end of the spindle B; rotary motion is transmitted to this rigger and thence to the spindle B by a driving band actuated by a steam engine or other prime mover. On each side of the receiver is a pipe *f* for introducing ozone into the receiver A, A^x. Each pipe *f* receives its supply 25 of ozone from a glazed gas holder or gasometer H. There is one such gas holder with its appurtenances on each side of the receiver A, A^x, though only one gas holder is shewn in the Drawings. G, tub or vessel forming a well or cylinder for the gas holder. T, T, counterbalance weights of gas holder. The use of two gasometers, one on each side of 30 the receiver, permits the ozonized air or ozonized oxygen to be passed from one gasometer to the other gasometer (through the vessel A, A^x) until completely exhausted. K, supply pipe communicating with gas retort.

In forming or producing a bath with the agent prepared as above 35 described, we recommend the use of the following proportions, one-third of a pint of the extract to twelve gallons of water.

Cunningham & Corbyn's Improved Extract for Preparing Baths.

The gas holders above referred to are made of glass or of copper glazed or enamelled on the inside.

Having now described the nature of the said Invention, and in what manner the same may be performed, we declare that we claim as constituting our said Invention, the agent consisting of an extract obtained from sea weed, sea wrack, or fuci, and treated with iodine and ozone, substantially in the manner and for the purpose described.

10 In witness whereof, I, the said James Glencairn Cunningham on behalf of myself and the said Joseph Corbin, have hereunto set my hand and seal, this First day of August, in the year of our Lord One thousand eight hundred and seventy-two.


JAMES GLENCAIRN CUNNINGHAM. (L.S.)

Witness,

15 ARCH^d. C. COKE, Q.C.D.,
60, Queen Street,
Ramsgate.

LONDON :

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Printers to the Queen's most Excellent Majesty. 1872.

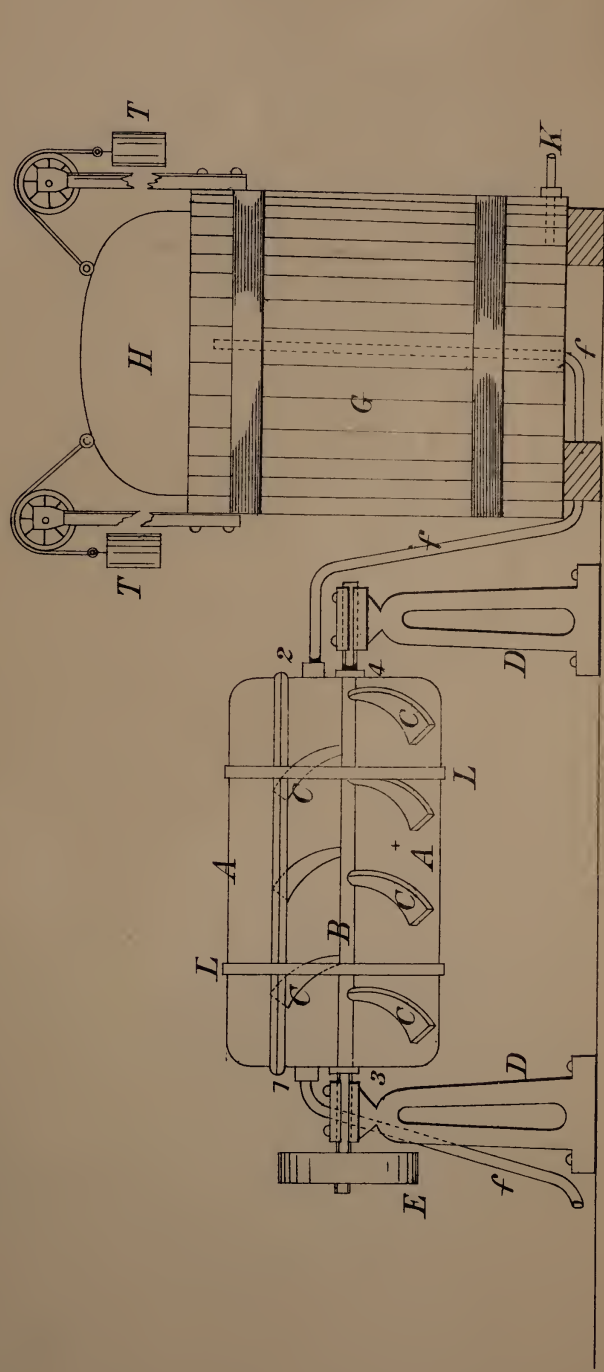


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A.D. 1872, FEB. 5. N^o 361.
CUNNINGHAM & CORBIN'S SPECIFICATION.

(LEAFS)



The filed drawing is not colored.

Drawn on Stone by Malby & Sons.

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